San Joaquin Valley Air Pollution Control District Compliance Data System Modernization Project

Work Plan

I.   Project Information:

Title of Project: Compliance Data System Modernization Project

Focus Area: Data Management

Total Funds Requested from EPA: $ 104,000

Total Project Cost: $ 164,000

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II.   Summary:

Problem

Currently, compliance data is maintained in a combination of legacy Windows and DOS based database programs (TEAMUP & X-Base) that are not adequately linked to each other or to the main District Permit Administration System (PAS). The District's PAS is a client/server application utilizing Microsoft SQL Server and Microsoft Visual Basic programs. The legacy applications do not have consistent data standards and must be re-programmed to be compatible with PAS. These databases are as follows:

Database	Information
PAS	Facility and Permit information
Daily Activities	Inspection type and date
NOV	Notice of Violation and penalty information
Breakdowns	Breakdown tracking
Complaint	Complaint tracking
Variance	Variance tracking
Source Test	Source test data (multiple databases)

To report inspections, HPV, source tests, complete our review of annual compliance certifications and report data to EPA, each of the databases must be individually queried and the information is then manually tabulated and entered in AIRS. This process is cumbersome, time consuming, and prone to errors. Compounding the problem is the fact that we have recently been reclassified as severe non-attainment for ozone and are soon going to request an extreme designation. This means that we will have at least 300 to 500 more Title V sources to deal with in the future.

Goal

The goal of this project is to develop new compatible data management tools and software that will create standard AFS batch format data to upload data to AIRS. Region IX has provided samples of the batch format and will be advising us for this part of the project. Additional data management capability will also be developed to track Title V deviations, reports of required monitoring, and annual compliance certifications.

Facility level data is currently stored in PAS and will continue to be maintained manually in AIRS.

Components

The project consists of three components:

- In-house development of new source test, breakdown, and Title V certification and report tracking database applications in PAS

- Development of NOV/NTC, complaint, and variance database applications not a part of PAS by an outside contractor

- In-house development of the software needed to batch transfer data to AIRS.

All databases will include the appropriate facility information to track the AIRS facilities and the NOV database will be capable of identifying High Priority Violations.

Results

When completed we will have quality data that is consistent with EPA/state data standards that can easily be reported to EPA. We will be able to transfer data to AIRS for FCE's, Title V Certification reviews, source tests, and HPV's including action linking.

III. **Project Timetable**

- Nov-Dec 2002   Grant Awarded

- January 2003   In-house staff starts development of the specifications and contract management for NOV, Complaints, and Variance databases.

- May 2004   Contractor developed database work completed.

- June 2004   Begin in-house development of Source Test, Breakdowns, TitleV report tracking, and the AIRS batch transfer software.

- March 2005   Final testing of all databases and AIRS batch transfer software.

- April 2005   Project complete. Demonstrate the ability to

transfer data for to AIRS for FCE's, Title V Certification reviews, source tests, and HPV's including action linking.

IV. Project Costs

Project Administration and development of outside contractor specifications	$ 18,000
In-house development of databases and AIRS batch processing upload formats	$ 42,000
Outside contractor database development	$ 104,000
Total Project Cost	**$ 164,000**
In kind contributions	($ 60,000)
Funds requested from EPA	$ 104,000